EEL6935: Selected Topics in Networking
Spring 2004

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Office Hours:


Syllabus:

1. Probability basics and Markov chain theory
2. Queueing model basics and Little’s law
3. M/M/1, M/G/1, G/M/1 and priority queues
4. Time-reversibility and multidimensional queueing models
5. Queueing networks: Jackson’s theorem and product form
6. Queueing networks: Generalizations of Jackson’s theorem
7. Matrix geometric approach: quasi-birth-death process (QBD)
8. Selected topics in wireless cellular networks
9. Selected topics in wireless ad hoc networks
10. Selected topics in Wireless sensor networks

Grading: Grades are based 20% on homework, 50% on one exam, 30% on project (including presentation). Overall average > 90% is guaranteed an A, > 80% is guaranteed a B, etc. No late homework is accepted.

Honor code: All students must follow the honor code of the University of Florida. The code is available on the course webpage.